

Tyler McCarthy

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Objectives

Seeking full time software development positions in San Francisco, especially those focusing on mobile development, web development, security engineering, and virtual reality applications in Unity and Unreal engine

Employment

Edmodo - Security Engineering Intern San Mateo, CA May - Aug 2015

- Designed, built, tested and deployed to AWS - service that detects malware and analyzes text in hundreds of user-generated content submissions per minute in arbitrary file format using Python, Flask, Apache Tika, Docker
- Designed, built, tested and maintained a moving-window rate limiting service covering entire platform, improving considerably over previous PHP implementation using Python, Apache Thrift, Docker, Redis
- Tested, confirmed, corrected, and documented security holes in PHP backend code
- Built a tool to automatically detect & fix mixed content on Wordpress blog pages
- Light dev/ops work in Amazon Web Services

Grand Valley Surplus Store - Student IT Tech Grand Rapids, MI Jun - Sep 2014

- Managed FOG disk imaging server, ensured total data wipe and reimaging of hundreds of computers with Linux; directly aided customers at checkout and during sales

Skills & Experience

Programming Languages:

Strong: Python, Java, JavaScript, C, C#, C++, BASH

Some exposure: PHP, Ruby, Haskell, Lisp

Learning: OpenGL & GLSL, Swift, HTML

Operating systems:

- Extensive Linux (Arch Linux, CentOS, Ubuntu)
- Windows 7, 8.1 & 10

Programs & Environments:

- Android Studio, Eclipse, Visual Studio
- Unity 5, Unreal Engine 4.5

B.S., Computer Science

Grand Valley State University Dec. 2015

Technologies :

- Apache Thrift, Apache Tika
- Docker, Amazon Web Services mgmt.
- Redis, SQLite, MySQL, General relational DB use

System security :

- Secure network architecture, firewall
- Practical crypto, IDS, honeypots, pentesting
- Linux server hardening experience

Recent Projects

- Several Android demo projects available here
- Square Wars - GVSU capstone project in Unity
- Atomic Games 9 hr. Hackathon - Othello AI

Github.com/point01/android-apps

Github.com/point01/square-wars

Github.com/point01/atomic-othello

Voluntarism & Student Organizations

Computer Security Team - Grand Valley - Team Coordinator

2013 - 2014

- Organized meetings & team practice, researched and taught skills, set up practice network
- Team competed in 2014 Michigan Collegiate Cyber Defense Competition

Student Environmental Coalition - Grand Valley - Treasurer

Sep - Dec 2013

- Balanced budget; wrote and presented funding requests, helped organize service events
- Secured 100% funding for 20 student attendees to Powershift environmental conference

Center For Inquiry - Grand Valley - Vice President, Treasurer, Service Coordinator

2011 - 2013

- Helped coordinate and execute speech by Neil deGrasse Tyson at GVSU (4,000 attendees)